



PATENT APPLICATION OF:

Linden A. deCarmo

Atty. Dkt. No.:

2655-0018

Appln. No.:

09/477,101

Art Unit:

2195

Filing Date:

January 4, 2000

Confirmation No.

8713

Title:

METHOD AND APPARATUS FOR

DYNAMICALLY BALANCING CALL

FLOW WORKLOADS IN A

TELECOMMUNICATIONS SYSTEM

Examiner: Ali, Syed J.

Date:

December 19, 2005

TRANSMITTAL

Hon. Commissioner of Patents P.O. Box 1450 Alexandria, VA 22313-1450

Best Available Copy

Sir:

Attached please find the following documents, submitted for filing in connection with the aboveidentified application:

General Power of Attorney

Statement under 37 C.F.R. § 3.73(b)

Assignments (2) (copies)

Our Deposit Account No.: 501860

Our Order No. (Client-Matter No.): 2655-0018

CHARGE STATEMENT: The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any missing or insufficient fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under Rules 16-18 (missing or insufficiencies only) now or hereafter relative to this application and the resulting Official document under Rule 20, or credit any overpayment, to our Account/Order Nos. (or Attorney Docket No.) shown in the heading hereof for which purpose a duplicate copy of this paper is attached.

This Charge Statement does not authorize charge of the issue fee until/unless an issue fee transmittal form is filed.

CUSTOMER NUMBER

42624

Bv:

Michael R. Casey, Ph.D.

Registration No. 40,294

Respectfully submitted,

Davidson Berquist Jackson & Gowdey LLP



PTO/SB/80 (04-05)

Approved for use through 11/30/2005. OMB 0651-0035

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POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO

I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).							
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X Pra	ctitioners associ	ated with the Customer Number:		42624			
OR OR			L	·		J ,	
Pra	ctitioner(s) name	ed below (if more than ten patent p	ractitioners are to	be named, then a cus	stomer.nun	nber must be use	∌d):
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as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).							
Please cha	ange the corresp	ondence address for the applicati	on identified in the	attached statement u	ınder 37 Cl	FR 3.73(b) to:	
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	The address ass	ociated with Customer Number:	42	2624			
OR Fire	n or						
L_ Indi	ividual Name					·	
Address					٠		
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Telephon	ie			Email			
							
Assignee Name and Address: NET2PHONE, INC.							
520 Broad Street, 8th Floor							
Newark, New Jersey 07102							
A copy of	f this form, to	gether with a statement und	er 37 CFR 3.73(b) (Form PTO/SB/	96 or equ	uivalent) is red	uired to be
A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.							
		ŞIGNAT	URE of Assignee		n behalf of	the assignee	
Signature					Date 9		
Name	Glenn J. W	Villiams		· · · · · · · · · · · · · · · · · · ·		ne (973) 438	-6066
Title		Vice President, General	Counsel	<u>.</u>	1	(>.5).50	
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This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by t by the USPTO to process) an application. Confidentiality is governed by 35 USC. 1.22 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



STATEMENT UNDER 37 CFR 3.73(b)

Plad Harry But 1	4 0000
Application No. / Patent No. 09/477,101 Filed / Issue Date: Januar	ry 4, 2000
Entitled: METHOD AND APPARATUS FOR DYNAMICALLY BALANCING CALL FI A TELECOMMUNICATIONS SYSTEM	LOW WORKLOADS IN
Assignee: Net2Phone, Inc. A Delaware Corporation	
States that it is:	
1. X the assignee of the entire right, title, and interest; or	
 an assignee of less than the entire right, title and interest. The extent (by percentage) of its ownership interest is % in the patent ap Identified above by virtue of either: 	pplication / patent
A. An assignment from the inventor(s) of the patent application / patent identified was recorded in the United States Patent and Trademark Office at Reel, which a copy thereof is attached.	_
OR	
B. A chain of title from the inventor(s), of the patent application / patent identified assignee shown below:	above, to the current
1. From: Inventor To: NetSpeak Corporation	
The document was recorded in the United States Patent and Trademark Office of 0558, and for which a copy thereof is attached.	at Reel <u>010700</u> Frame
2. From: NetSpeak Corporation To: Net2Phone, Inc.	
The document was recorded in the United States Patent and Trademark Office a, or for which a copy thereof is attached.	at Reel Frame
3. From: To:	
The document was recorded in the United States Patent and Trademark Office a, or for which a copy thereof is attached.	at Reel Frame
□ Copies of assignments or other documents in the chain of title are attached.	
Separate and true copies of the original assignment documents were previously s Assignment Division for recordation pursuant to 37 CFR § 3.11.	submitted to the
The undersigned (whose title is supplied below) is authorized to act on behalf of the a	assignee.
By: Date: Decembe	er 19, 2005
Michael R. Casey, Ph.D. Registration No. 40,294 Telephone No.:	(703) 894-6406
Title: Attorney	

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ASSIGNMENT OF PATENT APPLICATION

Docket No. N0003/7030

Applicant:

Linden A. deCarmo

Serial No:

09/477,101

Filed:

January 4, 2000

For:

METHOD AND APPARATUS FOR DYNAMICALLY BALANCING CALL

FLOW WORKLOADS IN A TELECOMMUNICATIONS SYSTEM

Examiner:

Not Yet Assigned

Art Unit:

2755

Whereas I, the undersigned, have made certain inventions or discoveries (or both) set forth in the above-identified application for Letters Patent of the United States of America, and

Whereas NetSpeak Corporation, a Florida corporation having a place of business at 902 Clint Moore Road, Suite 104, Boca Raton, FL 33487, which, together with its successors and assigns, is hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits and privileges hereinafter recited;

Now, therefore, for valuable consideration furnished by Assignee to me, receipt and sufficiency of which is hereby acknowledged, I do hereby, without reservation:

- 1. Assign, transfer and convey to Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, Convention and non-Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;
- 2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in my name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;
- 3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;
- 4. Warrant that I have not knowingly conveyed to others any right in said inventions, discoveries, applications or patents or any license to use the same or to make,

use or sell anything embodying or utilizing any of said inventions or discoveries; and that I have good right to assign the same to Assignee without encumbrance;

5. Bind my heirs, legal representatives and assigns, as well as myself, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to me or them, all acts reasonably serving to assure that the said inventions and discoveries, the said patent applications and the said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by me heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to me relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in my control or in the control of my heirs, legal representatives or assigns which may be useful for establishing the facts of my conceptions, disclosures, and reduction to practice of said inventions and discoveries.

In testimony of which I have executed this indicated next to my name.	Assignment of Patent Application on the date
Linden A. deCarmo	
State of FLORIDA SS County of PALM BEACH	
On this 2nd day of Murch, 2 deCarmo, to me known and known to me executed the foregoing instrument, and he and deed.	
Tatricia Heldebrand Notary Public	Patricia Hildebrand My Commission CC780039 Expires October 10, [883]
Known to me personally	☐ Identification produced:

ASSIGNMENT AND QUIT CLAIM

WHEREAS, NetSpeak Corporation, a corporation organized and existing under the laws of the State of Florida (hereinafter referred to as "ASSIGNOR") may have rights in the pending US patent applications, the issued US patents, the granted foreign patents and the pending foreign applications set forth on Schedule 1 attached hereto (the "Intellectual Property"); and

WHEREAS, Net2Phone, Inc., a company organized and existing under the laws of the State of Delaware (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire right, title and interest in and to said Intellectual Property;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00) and other valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR, by these presents does sell, assign, and transfer unto ASSIGNEE (1) ASSIGNOR's entire right, title and interest in and to the aforesaid Intellectual Property and the inventions described therein, and any continuation, continuation-in-part, divisional, reissue or reissues of said Intellectual Property to the full end of the term for which said Intellectual Property may be enforceable, said inventions and Intellectual Property to be held and enjoyed by the ASSIGNEE for the use and behalf of said ASSIGNEE, and for the use and behalf of their successors, assigns or other legal representatives, and (2) any and all claims for damage by reasons of infringement past and present, as fully and entirely as the same would have been held by ASSIGNOR had this Assignment and sale not been made.

FURTHERMORE, should ASSIGNOR have any rights to any patents or patent applications set forth on Schedule 1 that is beyond the Intellectual Property granted above (hereinafter "RESIDUAL RIGHTS"), in consideration of said sum of FIVE DOLLARS (\$5.00) and said other

valuable consideration, ASSIGNOR does hereby convey, assign and transfer to ASSIGNEE said RESIDUAL RIGHTS (including claims for damage by reasons of infringement past and present).

IN TESTIMONY WHEREOF, NetSpeak Corporation has caused these presents to be signed by its officer thereunto duly authorized.

Date: 10/6/05

Name: Glenn Williams

Title: Secretary

NET2PHONE
Legal
Reviewed
Date Initial

Next

As Of

Priority Status

Reg#

App#

Client Reference Description

Page 1 of 29

Prepared By: Luis J. Diaz

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Patents

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NetAdir 12345	12345	DAM	POINT-TO-POINT INTERNET PROTOCOL (AU 72476/96)	72476/96	727702	9/25/1995	Issued	4/5/2001
Kemon	<u>Kenyon 12106/10</u>	OI.	A point-to-point Internet protocol exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second unit from the database using the connection server, in response to the determination of a positive on-line status of the second processing unit, for establishing a point-to-point communication link between the first and second processing units through the Internet. A second point-to-point Internet protocol includes the steps of (a) transmitting an E-mail signal through the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between the first and second processing units through the Internet.	istablish a pristabilish a pristabilish a pristabilish a processing units the status with restatus of a processing int-to-point sond processing and processing and processing unit; (c) transmitt to deliver to restabilish	ocol oint-to- irough s the of a spect to og unit a of the er, in of the sing et et the Ef er the E- ing a shing a			

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NetAdir 11369 Kenyon 12106/10 Internet protocol includes the steps of (a) storing in a database a

the processing units through the Internet. A first point-to-point

units to establish a point-to-point communication link between

respective IP address of a set of processing units that have an

on-line status with respect to the internet; (b) transmitting a query from a first processing unit to a connection server to

exchanges Internet Protocol (IP) addresses between processing

(Divisional AU 72476/96)) A point-to-point Internet protocol

determine the on-line status of a second processing unit; and (c)

using the connection server, in response to the determination of

retrieving the IP address of the second unit from the database

establishing a point-to-point communication link between the first

a positive on-line status of the second processing unit, for

and second processing units through the internet. A second

point-to-point Internet protocol includes the steps of (a)

first processing unit; (b) processing the E-mail signal through the

Internet to deliver the E-mail signal to a second processing unit;

transmitting an E-mail signal, including a first IP address, from a

and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between

the first and second processing units through the Internet.

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App# Reg# Priority Status	protocol etween processing fon link between st point-to-point ing in a database a riansmitting a ion server to essing unit; and (c) where the database et determination of ed ethermination of end wit, for the between the first the A second eps of (a) IP address, from a signal through the ind processing unit; e first processing unit; e first processing unit;
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POINT-TO-POINT INTERNET

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PROTOCOL (BR)

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set of processing units that have an on-line status with respect to

the Internet; (b) transmitting a query from a first processing unit

to a connection server to determine the on-line status of a

response to the determination of a positive on-line status of the

communication link between the first and second processing

second processing unit, for establishing a point-to-point

units through the Internet. A second point-to-point Internet

second processing unit; and (c) retrieving the IP address of the

second unit from the database using the connection server, in

(IP) addresses between processing units to establish a point-to-

A point-to-point Internet protocol exchanges Internet Protocol

point communication link between the processing units through

the Internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a

processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing unit for establishing a

protocol includes the steps of (a) transmitting an E-mail signal,

including a first IP address, from a first processing unit; (b)

point-to-point communication link between the first and second

processing units through the Internet.

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Chent	Kejerenc	Client Reference Description	App#	App# Reg#	Priority Status	Status	As Of Next	Next
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NetAdir 8821	8821 <u>DAM</u>	POINT-TO-POINT INTERNET PROTOCOL (CA)	2231127 2231127	2231127	9/25/1995 Issued	Issued	1/28/2003	
Kenyon	12108/10	A point-to-point Internet protocol exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a comnection server to determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second unit from the database using the connection server, in response to the determination of a positive on-line status of the second processing unit; for establishing a point-to-point or ommunication link between the first and second processing units through the Internet. A second point-to-point Internet protocol includes the steps of (a) transmitting an E-mail signal to a second processing unit; (b) processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between the first and second processing units through the Internet.	to establish a cessing units a cessing units a cessing units a protocool include abordool include a first processing the IP address connection serve on line status of the IP address connection serve on line status point-to-point to point-to-point incomit and a cessing unit; (and the IP addressing unit) and the IP addressing unit; (and the IP addressing unit) and the IP addressing unit; (and the IP addressing unit) and the IP addressing unit; (and the IP addressing unit) and the IP addressing unit; (and the IP addressing unit) and the IP addressing unit; (and the IP addressing unit) and the IP addressing unit; (and the IP addressing unit) and the IP addressing unit; (and the IP addressing unit) and the IP addressing unit; (and the IP addressing unit) and the IP addressing unit) and the IP addressing unit (and the IP a	tocol coint-to- nrough ss the ss of a sspect to ng unit a cof the er, in cid the sing st itignal, b) b) er the E- ing a				

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Prepared By: Luis J. Diaz

Monday, March 29, 2004

96197195. ZL9619719 9/25/1995 processing the E-mail signal through the Internet to deliver the Eset of processing units that have an on-line status with respect to second IP address to the first processing unit for establishing a (IP) addresses between processing units to establish a point-tosecond processing unit; and (c) retrieving the IP address of the response to the determination of a positive on-line status of the point-to-point communication link between the first and second point communication link between the processing units through the Internet; (b) transmitting a query from a first processing unit second unit from the database using the connection server, in mail signal to a second processing unit; and (c) transmitting a the Internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a protocot includes the steps of (a) transmitting an E-mail signal, A point-to-point Internet protocol exchanges Internet Protocol communication link between the first and second processing to a connection server to determine the on-line status of a including a first IP address, from a first processing unit; (b) units through the Internet. A second point-to-point Internet second processing unit, for establishing a point-to-point processing units through the Internet. POINT-TO-POINT INTERNET PROTOCOL (CN) DAM

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Internet protocol includes the steps of (a) storing in a database a

units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point

respective IP address of a set of processing units that have an

on-line status with respect to the internet; (b) transmitting a query from a first processing unit to a connection server to

exchanges Internet Protocol (IP) addresses between processing

Divisional EPO 96 933 928.2) A point-to-point Internet protocol

POINT-TO-POINT INTERNET PROTOCOL (DIV. EP)

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NetAdir 18595 *Kenyon* 12106/15 determine the on-line status of a second processing unit; and (c)

retrieving the IP address of the second unit from the database

establishing a point-to-point communication link between the first

a positive on-line status of the second processing unit, for

and second processing units through the Internet. A second

point-to-point Internet protocol includes the steps of (a)

using the connection server, in response to the determination of

transmitting an E-mail signal, including a first IP address, from a first processing unit; (b) processing the E-mail signal through the

Internet to deliver the E-mail signal to a second processing unit;

unit for establishing a point-to-point communication link between

the first and second processing units through the Internet.

and (c) transmitting a second IP address to the first processing

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9/25/1995 Initial Review Internet protocol includes the steps of (a) storing in a database a first processing unit; (b) processing the E-mail signal through the establishing a point-to-point communication link between the first transmitting an E-mail signal, including a first IP address, from a unit for establishing a point-to-point communication link between query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) exchanges Internet Protocol (IP) addresses between processing using the connection server, in response to the determination of Internet to deliver the E-mail signal to a second processing unit; (Divisional of EP 03 022 288.9) A point-to-point Internet protocol and (c) transmitting a second IP address to the first processing respective IP address of a set of processing units that have an units to establish a point-to-point communication link between he processing units through the Internet. A first point-to-point retrieving the IP address of the second unit from the database and second processing units through the Internet. A second on-line status with respect to the Internet; (b) transmitting a a positive on-line status of the second processing unit, for the first and second processing units through the Internet. point-to-point Internet protocol includes the steps of (a) 03022288. POINT-TO-POINT INTERNET PROTOCOL (EP DIVISIONAL) DAM

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As Of

Priority Status

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App#

Client Reference Description

Kenyon 12106/15 NetAdir 18707

1/12/2004

of 29
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Page

Prepared By: Luis J. Diaz

Monday, March 29, 2004

9/25/1995 Examiner Review 1/23/2003 Pending (sm) 96933928.2 Priority Status processing the E-mail signal through the Internet to deliver the E-Reg# set of processing units that have an on-line status with respect to second IP address to the first processing unit for establishing a point-to-point communication link between the first and second processing units through the Internet. IP) addresses between processing units to establish a point-toresponse to the determination of a positive on-line status of the the Internet; (b) transmitting a query from a first processing unit second processing unit; and (c) retrieving the IP address of the point communication link between the processing units through protocol includes the steps of (a) transmitting an E-mail signal, mail signal to a second processing unit; and (c) transmitting a steps of (a) storing in a database a respective IP address of a the Internet. A first point-to-point Internet protocol includes the second unit from the database using the connection server, in A point-to-point Internet protocol exchanges Internet Protocol communication link between the first and second processing including a first IP address, from a first processing unit; (b) to a connection server to determine the on-line status of a units through the Internet. A second point-to-point Internet 96933928. second processing unit, for establishing a point-to-point App# POINT-TO-POINT INTERNET Description PROTOCOL (EP) Client Reference NetAdir 12347 DAM Kenyon 12106/10

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POINT-TO-POINT INTERNET PROTOCOL (HK) A point-to-point internet protocol exchanges internet Protocol (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point internet protocol includes the steps of (a) storing in a database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second unit from the database using the connection server, in response to the determination of a positive on-line status of the second processing unit; for establishing a point-to-point normunication link between the first and second processing unit; (b) processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between the first and second processing units through the Internet.	
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NetAdir 12349 DAM POINT-TO-POINT INTERNET 9-515065 9/55/1995 Examiner Review 5/29/2003 Kenyca 12/106/11 A point-to-point Internet protocol exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point communication link between the processing unit strough the internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a set of processing unit to a connection server to determine the on-line status of a second processing unit. and (c) retireving the P address of the second unit from the database using the connection server, in response to the determination of a positive ca-line status of the second processing unit, for establishing a point-to-point Internet protocol includes the steps of (a) transmitting a E-mail signal, including a first IP address, from a first processing unit; (b) processing the E-mail signal through the Internet. A second processing unit; (b) processing unit in a first processing unit (c) transmitting a second processing unit in defense to the first processing unit; (b) processing unit; (b) processing unit all second processing unit in defense to the first processing unit; (b) answritting a second processing unit in defense to the first processing unit; (b) processing unit in a second processing unit in defense to the first processing unit (c) transmitting a second processing unit in defense to the first processing unit (c) stabilishing a second IP address to the first processing unit (c) at ansmitting a second produce of the defense to the first processing unit (c) at ansmitting a second produce of the defense to the defense of the defense of the defen	Client	Client Reference	e Description	App# Reg# Priority Status	Priority	Status	As Of Next	Next	Due Date
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processing units through the Internet.		-1	A point-to-point Internet protocol exchanges (IP) addresses between processing units to point communication link between the proce the Internet. A first point-to-point Internet priseps of (a) storing in a database a respectise of processing units that have an on-line the Internet; (b) transmitting a query from a to a connection server to determine the onsecond processing unit; and (c) retrieving the second processing unit; and (c) retrieving the second more to the determination of a positive second more to the determination of a positive second processing unit, for establishing a pommunication link between the first and sumits through the Internet. A second point-ty processing the E-mail signal through the In mail signal to a second processing unit; an second IP address from a first proposer of the first processing unit; an second IP address to the first processing unit; an second IP address to the first processing unit; an second IP address to the first processing unit; and soccessing units through the Internet.	Internet Protocol establish a point-to-ssing units through alocol includes the we IP address of a status with respect to first processing unit line status of a ne IP address of the mnection server, in con-line status of the coint-to-point and server, in an-to-point internet of the coint-to-point alocol processing o-point internet and second for of (c) transmitting a nit for establishing a the first and second		Examination is due o	on Sep. 25,03		

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Prepared By: Luis J. Diaz

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Client	Client Reference D	e Description	App# Reg#	Priority Status	Status	As Of	Next	Due Date
NetAdir 16005	ă	POINT-TO-POINT INTERNET PROTOCOL (KR)	10-1998-7	9/25/1995	Legal Review	712/2003		
<u>Kenyon</u>	12108/11	A point-to-point Internet protocol exchanges Internet Protocod (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second processing unit, for establishing a point-to-point communication link between the first and second processing units through the Internet. A second point-to-point Internet protocol includes the steps of (a) transmitting an E-mail signal to a second processing unit; (b) processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between the first and second processing units through the Internet.	Internet Protocod establish a point-to-ssing units through stood includes the Ae IP address of a status with respect to lirst processing unit ine status of a e IP address of the nnection server, in on-line status of the cond processing cond processing the cond processing the cond processing the cond processing the cond processing an E-mail signal, essing unit; (b) ternet to deliver the E-1(c) transmitting a sit for establishing a line first and second		need material			

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App#	98 2341 s Internet Pro o establish at essing units 1 essing units 1 essing units 1 essing units 1 essing units 2 essing an E-mail cessing unit; 1 essing unit 1 essing unit 1 essing unit 1 essing unit; 1 essing unit 1 essing unit; 1
Client Reference Description	POINT-TO-POINT INTERNET A point-to-point Internet protocol exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point internet protocol exchanges Internet Protocol (IP) addresses between processing units through the Internet. A first point-to-point Internet processing units through the Internet. A first point-to-point Internet processing units that have an on-line status with respect to the Internet. (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second unit from the database using the connection server, in response to the determination of a positive on-line status of the second processing unit, for establishing a point-to-point communication fink between the first and second processing units through the Internet. A second point-to-point Internet protocol includes the steps of (a) transmitting an E-mail signal to a second processing unit; (b) processing the E-mail signal through the Internet to deliver the E- mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between the first and second processing units through the Internet.
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POINT-TO-POINT INTERNET

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set of processing units that have an on-line status with respect to

steps of (a) storing in a database a respective IP address of a

the Internet; (b) transmitting a query from a first processing unit second processing unit; and (c) retrieving the IP address of the

to a connection server to determine the on-line status of a

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A point-to-point Internet protocol exchanges Internet Protocol

point communication link between the processing units through

the Internet. A first point-to-point Internet protocol includes the

response to the determination of a positive on-line status of the

second unit from the database using the connection server, in

processing the E-mail signal through the Internet to deliver the E-

including a first IP address, from a first processing unit; (b) units through the Internet. A second point-to-point Internet

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protocol includes the steps of (a) transmitting an E-mail signal,

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processing units through the Internet.

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Reg#	tocol coint-to- irough ss the ss of a sspect to mg unit a i of the sof the signal, b) rer the E- ting a shing a		08/914,714 5,999,965	n system circuit- atic call ing calls a a may be CD server ed via a mation ording to nables a oads and
 App#	9802207.2 19ges Internet Profise to establish a processing units the protocol include bective IP address on on-line status with refuse on-line status with refuse on-line status with refuse on-line status with refuse on-line status of on-line status on on-line status in a point-to-point intermitting an E-mail supprocessing unit; (e Internet to delive; and (c) transmitting unit for establishen the first and second processing unit; (e) transmitting an E-mail supprocessing unit; (e) transmitting an E-mail supprocessing unit; (e) transmitting and second processing unit for establisher		08/914,714	ierver for Computic call distribution ginatic and altituding on either utilizes an autom utilizes an autom cally configuring and conter and AC operatively couple a ACD server accuser interface e status of agent is and the agent response to call!
Description	POINT-TO-POINT INTERNET PROTOCOL (SG) A point-to-point Internet protocol exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second processing unit, for establishing a point-to-point communication link between the first and second processing units through the Internet. A second point-to-point Internet protocol includes the steps of (a) transmitting an E-mail signal including a first IP address, from a first processing unit; (b) processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between the first and second processing unit; through the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between the first and second	30	AUTOMATIC CALL DISTRIBUTION SERVER FOR COMP.	[Full Title: Automatic Call Distribution Server for Computer Telephony Communication] An automatic call distribution system capable of receiving incoming calls originating on either circuitswitched or packet-switched networks utilizes an automatic call distribution (ACD) server for receiving and routing incoming calls and a control center module for dynamically configuring a plurality of agent processes to which the incoming calls may be transferred. The agent processes, control center and ACD server may be separated. The incoming calls contain user information which enables calls to be routed by the ACD server according to a plurality of different criteria. A graphic user interface enables a system user to dynamically monitor the status of agent processes and reconfigure both queues and the agent processes associated with a queue in response to call loads and agent resource availability.
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F	NetAdir 19425 12106/11	United States	NetAdir 8639	210 <u>879</u>
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Priority Status Reg# between the processing units through the Internet. A first point-tosecond processing unit; and (c) transmitting a second IP address unit; and (c) retrieving the IP address of the second unit from the processing units to establish a point-to-point communication link transmitting a query from a first processing unit to a connection processing unit, for establishing a point-to-point communication address, from a first processing unit; (b) processing the E-mail link between the first and second processing units through the Internet. A second point-to-point Internet protocol includes the database a respective IP address of a set of processing units server to determine the on-line status of a second processing communication link between the first and second processing protocol exchanges Internet Protocol (IP) addresses between steps of (a) transmitting an E-mail signal, including a first IP Computer Telephony Environment A point-to-point Internet signal through the Internet to deliver the E-mail signal to a Providing Caller Identification Based On Call Blocking In A point Internet protocol includes the steps of (a) storing in a to the first processing unit for establishing a point-to-point hat have an on-line status with respect to the Internet; (b) database using the connection server, in response to the 08/718,911 (C.I.P 08/533,115) [Full Title: Method and Apparatus for determination of a positive on-line status of the second App#CALLER ID BASED CALL BLOCKING IN A COMPUTER TELEPH Description Client Reference DAM

units through the Internet.

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Method and Apparatus for Delivering Automated Voice

DELIVERING AUTOMATED VOICE MESS. ANNOTATE WINRL

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Kenyon

Messages Annotated with URL Data

second processing unit; and (c) transmitting a second IP address

communication link between the first and second processing

units through the Internet.

to the first processing unit for establishing a point-to-point

address, from a first processing unit; (b) processing the E-mail

signal through the Internet to deliver the E-mail signal to a

steps of (a) transmitting an E-mail signal, including a first IP

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CALLER ID BASED ON OUTGOING

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between the processing units through the Internet. A first point-to-

point Internet protocol includes the steps of (a) storing in a

processing units to establish a point-to-point communication link

protocol exchanges Internet Protocol (IP) addresses between

Providing Caller Identification Based On Outgoing Messaged In

C.I.P 08/533,115) [Full Title: Method and Apparatus for

A Computer Telephony Environment A point-to-point Internet

unit; and (c) retrieving the IP address of the second unit from the

database using the connection server, in response to the

determination of a positive on-line status of the second

server to determine the on-line status of a second processing

transmitting a query from a first processing unit to a connection

database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b)

processing unit, for establishing a point-to-point communication

ink between the first and second processing units through the Internet. A second point-to-point Internet protocol includes the

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Client Reference Description DAN DAN NetAdir 8620

(C.I.P. of 08/533,115) [Full Title: Directory Server For Providing **ASSIGNING NETWORK ADDRESSES** DIRECTORY SERVER FOR

Kenyon 12106/18

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Original certificate receive 6,185,184 (sm)

processes connected to the network via periodic notification from interval at which client processes notify the server, depending on requesting client process, the server provides the corresponding communication protocol for establishing real-time, point-to-point network includes a directory server apparatus for providing the the client processes. The server dynamically modifies the time network. In response to identification of one of the entries by a he server maintains a list of entries, each entry including the internet Protocol address of a user currently connected to the dient processes currently connected to the computer network nternet Protocol address of the entry to the requesting client current dynamically assigned Internet Protocol addresses of process, in accordance with a second aspect of the present communications between computer users over a computer nvention, the directory server monitors the status of client Dynamically Assigned Network Protocol Addresses] A he demand for server resources.

DAM Kenyon 12106/25 NetAdir 8638

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point communications between client processes over a computer client process currently connected to the computer network. The A communication protocol for establishing real-time, point-tocurrent dynamically assigned Internet Protocol addresses of network includes a directory server apparatus for providing

accordance with one aspect of the invention, each client process and receives a feature definition identifying which of the plurality is required to connect to the server apparatus upon initialization another aspect of the invention a callee client process verifies client processes can be Internet telephony applications each capable of performing a plurality of predefined functions. In of functions the client process is authorized to perform. In

the identity of a caller dient process with the directory server and with yet another aspect of the invention, the feature definition is prevent the caller client process from communicating with the definable by either the requesting client process or the server. callee client process in unauthorized manners. In accordance is provided with the feature definition of the caller process to

Monday, March 29, 2004

Prepared By: Luis J. Diaz

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Reg#	08/911,133 6,347,085	ween ne PSTN rr more ss of a packet- us on ed is a work which infly	6,275,490	wser to r a r a ser utility vebsite ith the one fer an onal ables s s pages
App#	08/911,133	switched g domain nan g domain nan lye traditional d, using one c rotocol addre g task on the rating apparat c. Also disclos he cross ne r architecture r such as cot chical tree	915034	iata nework c dudes a dudes a g with a brows ained from a v the website w iformation. In comprise eith ss, or a traditi lity further en unication link same website a point-to-pol
	EE	oparatus for enabling communication between data networks and circuit-switched networks utilizes the existing domain name sture of the Internet to resolve traditional PSTN ers into domain names, and, using one or more rivers, locate the network protocol address of a sof connecting an executing task on the packet stwork to the desired terminating apparatus on ned communication network. Also disclosed is a sture capable of performing the cross network well as domain name server architecture which ents of a telephone number, such as country and exchange, in a hierarchical tree		initiating communications from a web browser to either a packet-switched data network or a communication network includes a utility capable of interacting with a browser utility to address information obtained from a website a communication link with the website with the n defined by the address information. In one e address information may comprise either an address, an E-mail address, or a traditional zer. The communication utility further enables data so that once a communication link is a parties may examine the same website pages while communicating over a point-to-point link.
Description	ESTABLISHING COMM, BETWEEN PACKET-SWITCHED	A method and apparatus for enabling communication between packet-switched data networks and circuit-switched communication networks utilizes the existing domain name system infrastructure of the Internet to resolve traditional PSTN telephone numbers into domain names, and, using one or more domain name servers, locate the network protocol address of a gateway capable of connecting an executing task on the packet-switched data network to the desired terminating apparatus on the circuit switched communication network. Also disclosed is a gateway architecture capable of performing the cross, network connections as well as domain name server architecture which stores the segments of a telephone number, such as country code, area code and exchange, in a hierarchical tree	ESTABLISHING COMM. FOR BROWSER APPLICATION	A technique for initiating communications from a web browser to a destination on either a packel-switched data network or a circuit-switched communication network includes a communication utility capable of interacting with a browser utility and responsive to address information obtained from a website for establishing a communication link with the website with the other destination defined by the address information. In one embodiment, the address information may comprise either an internet protocol address, an E-mail address, or a traditional telephone number. The communication utility further enables sharing of URL data so that once a communication link is established, the parties may examine the same website pages simultaneously while communicating over a point-to-point communication link.
Client Reference	DAM	<u>147</u>	DAM	747
Ref	8339	<u>12106</u>	8642	12106
Client	NetAdir 8339	<u>Кепуол</u> 1210641	NetAdir 8642	<u>Kenyon</u> 12106/42

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NetAdir 8621	8621	DAM	GRAPHIC USER INTERFACE FOR INTERNET	08/721,316	08/721,316 6,009,469	8/21/1996	lssued	12/28/1999		
Kenyon	12106/19		(C.I.P. of US 08/533,115) A communication utility for establishing real-time, point-to-point communications between processes over a computer network includes apparatus for querying a server as to the network protocol address of another client process, and apparatus for directly establishing a communication link with the client process upon receipt of the network protocol address from the server. In one embodiment, the utility includes a sophisticated user interface having features similar to typical telephony hardware but implementing greater flexibility with software.	lity for zations betw apparatus for ddress of ar dishing a on receipt of ne embodin e having fer	reen refronter oother ithe nent, alures					
NetAdir 8065	8065	DAM	METHOD AND APPARATUS FOR BROADCAST OF MULTIMEDIA	09/002,988			Legal Review	2/26/2004		
Kenyon	09/002,98	901	Data over a computer network							
NetAdir 8084	8084	DAM	METHOD AND APPARATUS FOR PROVIDING CALLED ID	08/719,639			Legal Review	2/26/2004		
Kenyon	08/719.63	וכט	Responses in a computer telephony environment							
NetAdir 8063	8063	DAM	METHOD APPARATUS FOR ESTABLISHING COMM,	08/911,133			Legal Review	2/26/2004		
Kenyon	08/911,13	ଜା	Between packet switched and circuit switched networks	networks						
NetAdir 8064	8064	DAM	METHOD APPARATUS FOR PROVIDING CALLER ID	08/718,911			Legal Review	2/26/2004		
Kenyon			Based call blocking in a computer telephony environment	environmen						
NetAdir 8474	8474	DAM	METHOD FOR PLACING INTERNET/INTRANET CALLS	09/998,742		8/14/1997	First Office Action 12/5/2003	12/5/2003		
Kenvon	1210628		(Continuation of US 6347085) A method and apparatus for enabling communication between packet-switched data networks and circuit-switched communication networks utilizes the existing domain name system infrastructure of the Internet to resolve traditional PSTN telephone numbers into domain names, and, using one or more domain name servers, locate the network protocol address of a gateway capable of connecting an executing task on the packet-switched data network to the desired terminating apparatus on the circuit switched communication network. Also disclosed is a gateway architecture capable of performing the cross network connections as well as domain name server architecture which stores the segments of a telephone number, such as country code, area code and exchange, in a hierarchical tree	apparatus fiched data networks u re of the Int into domain into do	or tilizes ernet to names, cting an cting an ne e					

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MULTIMEDIA ARCHITECTURE FOR 08/916,091 DATA NETWORKS Collaborative Multimedia Architecture For Packet-Switched Data Networks MULTIMEDIA DATA OVER A COMPUTER NETWORK (C.I.P. of US 08/533,115) Method and Apparatus For Distribution and Presentation of Multimedia Data over a Computer Network NETWORK OPERATING TOOLS The present invention is directed to systems, methods, and
Architecture For Packet-Switched Dans RA 08/719,891 Shethod and Apparatus For Distribution of the Computer Networks including a directed to systems, methods, and surver for managing networks including
R A 087719,891 S) Method and Apparatus For Distribut timedia Data over a Computer Networ TOOLS 09/575,677 s directed to systems, methods, and burst for managing patworks including
5) Method and Apparatus For Distribution Itimedia Data over a Computer Network TOOLS 09/575,677 address of circeted to systems, methods, and burst for managing perworks including
TOOLS 09/575,677 s directed to systems, methods, and aucts for managing petworks including
network status message traffic and more particularly, systems, methods, and computer program products for preventing data overrun between a real time status manager and a network operations console.
UMBER DOMAIN NAMES INTO 08/911,519 6,594,254 IETWORK PROTOCAL ADD.
A method and apparatus for translating a domain name representing a telephone number into a network protocol address includes a domain name server architecture containing logic responsive to a telephone number domain name, the telephone number domain name, the telephone number domain name representing the country code, area code, exchange, or subscriber number of a subscriber apparatus telephone number. The logic resolves the telephone number domain name into a network protocol address usable in ultimately initiating a communication with the subscriber apparatus on a circuit-switched network. In one embodiment, a hierarchical tree of domain names and subdomain names representing the country codes, area codes and exchange codes of telephone numbers is constructed to assist in the process of resolving domain names to network protocol addresses.

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As Of	10/8/2002	4/23/2002
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Priority Status	1/5/1999	1/20/1996
Reg#	6,463,565 le state in state in mory late ass. sss. ltable though	obs974,652 6,377,568 alls originating on none network the disparate ary receives a call at the call in queue all over a he gateway fying the port at normation information ray and the actual th, both over a ss to the caller. But cener may an path and the pear to the caller pear to the caller.
App#	osi477,435 6,463,565 encapsulating the lated with each state in tiated with each state in diated when the d when the state is a runtime when an e amount of memory ininitized. The state nitiated can be bject-oriented class is of its parent class. It to be added and table enwritten in the assi includes methods and destroyed.	one calls original continuation calls original continuation calls original calls or a telephone netwo modate disparate gateway receive allacing the call in ous call over a ter. The gateway and the contrincation infortingateway and the on path, both ow address to the cacy call center mication path and continuation path and continuation path and continuation path and chappear to the cappear to t
Description	OBJECT ORIENTED TABLE DRIVEN STATE MACHINES A finite state machine is implemented by encapsulating the portions of a state table, which are associated with each state in a state object. Each state object is instantiated when the associated state is entered and destroyed when the state object is entered and destroyed when the state is exited. Since memory is only allocated at untiline when an object is instantiated and in existence, the amount of memory required to implement the state table is minimized. The state class from which the state table is minimized. The state class from which the state table is minimized. The state class from which the state table is minimized can be subclassed. In accordance with normal object-oriented class design, a subclass allows table rows to be added and table rows present in the parent class to be overwritten in the subclass. The state table in each state class includes methods that are called when the class is created and destroyed.	PERFORMING CALL MATCHING FOR NUTERNET TELEPHONE A lechnique for matching intermet telephone calls originating on a packet-switched data network with legacy automatic call distribution centers on a public switched telephone network utilizes a gateway architecture to accommodate disparate network architecture and protocols. The gateway receives a call on an Intermet Protocol-based network, placing the call in queue at a gateway port, and places an analogous call over a traditional PSTN line to a legacy call center. The gateway provides the call center with information identifying the port at which the IP based call is queued. The call center is provided with software capable of resolving the identification information into the network protocol address of the gateway and the actual port for establishing a dual communication path, both over a PSTN network, and an Intermet protocol address to the caller. Upon connection to the gateway the legacy call center may complete both the PSTN audio communication path and the packet-switched connection, both of which appear to the caller as a single connection.
Client Reference	<u>DAM</u>	<u>DAM</u> 736
t Ref	Ne(Adir 8483 <u>Kenyon 1210643</u>	NetAdir 8478 <u>Kenyon 12106/36</u>
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Client Reference Description

1/8/2004

09/345,222 6,701,365 9/25/1995 Drawings/lssue F

exchanges Internet Protocol (IP) addresses between processing

(Divisional of US 08/533,115)A point-to-point Internet protocol units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point

POINT- TO-POINT INTERNET PROTOCOL (DIV.)

DAM

NetAdir 8468

Kenyon 12106/17

Internet protocol includes the steps of (a) storing in a database a

respective IP address of a set of processing units that have an

on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to establishing a point-to-point communication link between the first

and second processing units through the Internet. A second

point-to-point Internet protocol includes the steps of (a)

determine the on-line status of a second processing unit; and (c) retrieving the IP address of the second unit from the database

using the connection server, in response to the determination of

a positive on-line status of the second processing unit, for

first processing unit; (b) processing the E-mail signal through the

Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing

unit for establishing a point-to-point communication link between

the first and second processing units through the Internet.

transmitting an E-mail signal, including a first IP address, from a

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As Of	Response to Final 12/11/2003 Completed	10/10/2000
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Priority	9/25/1995	9/25/1995
App# Reg#	ogr345,221 sses between protocol sses between processing unication link between et. A first point-to-point a) storing in a database a ssing units that have an et; (b) transmitting a connection server to d processing unit; and (c) unit from the database se to the determination of processing unit, for ation link between the first ne Internet. A second is the steps of (a) a first IP address, from a second processing unit; ss to the first processing mmunication link between mough the Internet.	08/719,554 6,131,121 nt-to-Point Computer ng Dymanically Assigned unication utility for anmunications between cludes apparatus for otocol address of another tily establishing a cess upon receipt of the ver. In one embodiment, ir interface having features out implementing greater
Description	POINT- TO- POINT INTERNET PROTOCOL (DIVISIONAL) (Divisional of US 08/533,115) A point-to-point Internet protocol exchanges Internet Protocol (IP) addresses between processing units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point Internet protocol includes the steps of (a) storing in a database a respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a query from a first processing unit to a connection server to determine the on-line status of the second processing unit; and (c) retrieving the IP address of the second processing unit, for establishing a point-to-point communication link between the first and second processing unit; (b) processing the E-mail signal through the Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between the first and second processing unit; through the Internet to deliver the E-mail signal communication link between the first and second processing units through the Internet.	POINT-TO-POINT COMP. NETW. COMM. (C.I.P. US 08/533,115) [Full Title: Point-to-Point Computer Network Communication Utility Utilitizing Dymanically Assigned Network Protocol Addresses] A communication utility for establishing real-time, point-to-point communication utility for establishing real-time, point-to-point communications between processes over a computer network includes apparatus for querying a server as to the network protocol address of another client process, and apparatus for directly establishing a communication link with the client process upon receipt of the network protocol address from the server. In one embodiment, the utility includes a sophisticated user interface having features similar to typical telephony hardware but implementing greater flexibility with software.
Reference	8466 <u>DAM</u> 12106/16	8637 <u>DAM</u> 1210623
Client Re	NetAdir 8466 <u>Kenyon 1210</u>	NetAdir 8637 <u>Kenyon 1210</u>

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Priority Status 09/407,270 6,513,066 9/25/1995 Issued Reg# internet protocol includes the steps of (a) storing in a database a a query from a first processing unit to a connection server to determine the on-line status of a second processing unit; and (c) establishing a point-to-point communication link between the first transmitting an E-mail signal, including a first IP address, from a first processing unit; (b) processing the E-mail signal through the and (c) transmitting a second IP address to the first processing unit for establishing a point-to-point communication link between exchanges Internet Protocol (IP) addresses between processing using the connection server, in response to the determination of Internet to deliver the E-mail signal to a second processing unit; respective IP address of a set of processing units that have an units to establish a point-to-point communication link between retrieving the IP address of the second unit from the database the processing units through the Internet. A first point-to-point (Continuation of 08/533, 115) A point-to-point Internet protocol and second processing units through the Internet. A second a positive on-line status of the second processing unit, for on-line status with respect to the Internet; (b) transmitting the first and second processing units through the Internet. point-to-point Internet protocol includes the steps of (a) #dd_V POINT-TO-POINT INTERNET PROTOCOL (CONT.) Client Reference Description DAM

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09/343,278 6,687,738

POINT-TO-POINT INTERNET

DAM

NetAdir 8465

PROTOCOL (DIV)

Kenyon 12106/15

6,687,738

Internet protocol includes the steps of (a) storing in a database a

respective IP address of a set of processing units that have an on-line status with respect to the Internet; (b) transmitting a

exchanges Internet Protocol (IP) addresses between processing

units to establish a point-to-point communication link between the processing units through the Internet. A first point-to-point

(Divisional of US 08/533,115) A point-to-point Internet protocol

query from a first processing unit to a connection server to determine the on-line status of a second processing unit, and (c)

establishing a point-to-point communication link between the first

a positive on-line status of the second processing unit, for

and second processing units through the Internet. A second

point-to-point Internet protocol includes the steps of (a)

using the connection server, in response to the determination of

retrieving the IP address of the second unit from the database

first processing unit; (b) processing the E-mail signal through the

Internet to deliver the E-mail signal to a second processing unit; and (c) transmitting a second IP address to the first processing

unit for establishing a point-to-point communication link between

the first and second processing units through the Internet.

transmitting an E-mail signal, including a first IP address, from a

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Amendment and request for continued prosecution

based on the identity of the incoming communication, selectively responding. In one embodiment, an information profile contained

includes the ability to identify incoming communications, and,

having dynamically assigned Internet Protocol addresses

point communications over computer networks between users

(C.I.P. of 08/533,115) A utility for enabling real-time, point-to-

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NetAdir 8472

Kenyon 12106/26

information profiles contained within the personal directory of a

within an incoming signal is compared to a plurality of

user, and, if a match occurs, the notification signal associated

incoming communication includes an identifier of a notification

embodiment, the information profile contained within the

with the matched profile is generated. In an alternative

signal which is used to select from a number of predefined

notification signals resident within the user's private directory.

Examiner Review 5/29/2003

9/25/1995

08/719,639

processing the E-mail signal through the Internet to deliver the E-

protocol includes the steps of (a) transmitting an E-mail signal,

including a first IP address, from a first processing unit; (b)

communication link between the first and second processing

second processing unit, for establishing a point-to-point

units through the Internet. A second point-to-point Internet

second IP address to the first processing unit for establishing a

mail signal to a second processing unit; and (c) transmitting a

point-to-point communication link between the first and second

processing units through the Internet.

PROVIDING IDENTIFICATION BASED

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Description

Client Reference

Original Certificate received 6,108,704 (sm)

8/22/2000

Issued

9/25/1995

08/533,115 6,108,704

POINT-TO-POINT INTERNET

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PROTOCOL (US)

NetAdir 8619 Kenyon 12106/10 set of processing units that have an on-line status with respect to

steps of (a) storing in a database a respective IP address of a

the Internet. A first point-to-point Internet protocol includes the

he Internet; (b) transmitting a query from a first processing unit

to a connection server to determine the on-line status of a

response to the determination of a positive on-line status of the

second processing unit; and (c) retrieving the IP address of the

second unit from the database using the connection server, in

(IP) addresses between processing units to establish a point-to-

A point-to-point Internet protocol exchanges Internet Protocol

point communication link between the processing units through

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Client	Reference	Description	App# Reg#	Priority Status	Status	As Of	Next	Due Date
NetAdir 8484 <u>Kenyon 1210</u>	8484 <u>DAM</u> 12106/45	SCALABLE CALL FLOW PROCESSING APPARATUS A call flow server is disclosed that processes call flow events from a plurality of gateways bridging between traditional circuitswitched networks. The call flow server server, which may be implemented networks. The call flow server server, which may be implemented with either a single processor or multi-processor design, includes call flow engine and call flow thread manager modules capable of managing a plurality of call flow events by distributing the call flow scripts associated with such events among a plurality of threads executing on the call flow server. Each call flow went in the form of a call flow script is processed on a single thread within a selected processor. Processing each call flow script on a single thread fully utilizes the processor resources and ensures that a call flow script need not be blocked while another call flow script is running. The call flow script to a thread that has excess capacity.	o9/477,101 s call flow events an traditional circuit- works. The call flow fith either a single as call flow engine ble of managing a e call flow scripts iffy of threads flow event in the form thread within a aw script on a single and ensures that a toother call flow script tread manager to t has excess capacity.	1/5/1999	Amendment Dus Completed	12/1/2003		
NetAdir 8641 Kenyon 1210	8641 <u>DAM</u> 1210633	ARCHITECTURE A VIRTUAL CIRCUIT SWITCHING ARCHITECTURE A virtual architecture for enabling direct point-to-point communications between any processes on a network doud utilizes a process record in which information relevant to the process is stored and propagated through a parent/child hierarchy of connection service processes and information service processes. Process records and information relating to processes are propagated throughout private clouds, public clouds and interconnecting global services to facilitate both activity based network routing and load based network routing	08/832,74 6,178,453 nt-to-point n a network cloud nn relevant to the parent/child and information formation relating to the clouds, public to facilitate both	2/18/1997	Issued 1/23/2001 Original certificate receive 6,178,453 (sm)	1123/2001 eceive 6,178,455	3 (sm)	
NetAdir 8476 <u>Kenyon 1210</u>	8476 <u>DAM</u> 12106/34	without the use of predetermined network routing mechanisms. VIRTUAL CIRCUIT SWITCHING ARCHITECTURE (Continuation of US 08/832,746) A virtual architecture for enabling direct point-to-point communications between any processes on a network doud utilizes a process record in which information relevant to the process is stored and propagated through a parent/child hierarchy of connection service processes and information service processes. Process records and information relating to processes are propagated throughout private clouds, public clouds and interconnecting global services to facilitate both activity based network routing and load based network routing mechanisms.	outing mechanisms. 09/640,406 rechitecture for ans between any acess record in which d and propagated tion service processes is records and agated throughout recting global services fulling and load based mined network	4/4/1997	Final Rejection Re 11/6/2003	11/6/2003		

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